

# Planning for Hotfixes

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# Introduction to Hotfixes

If we can rollback, we can fix things with less pressure

But that's not always possible



# Hotfix

a small piece of code developed to correct a major software bug or fault and released as quickly as possible.

1. **Small**
2. **Corrects a MAJOR bug**
3. **Released as quickly as possible**



# A Major Fault

**Jernathan Smith, CEO**

- Faults which compromise the security of your application or enterprise
- Faults which make significant functionality unavailable to your customers
- Faults which may compromise the target system of the user



Everything should be made as simple as possible but not simpler.

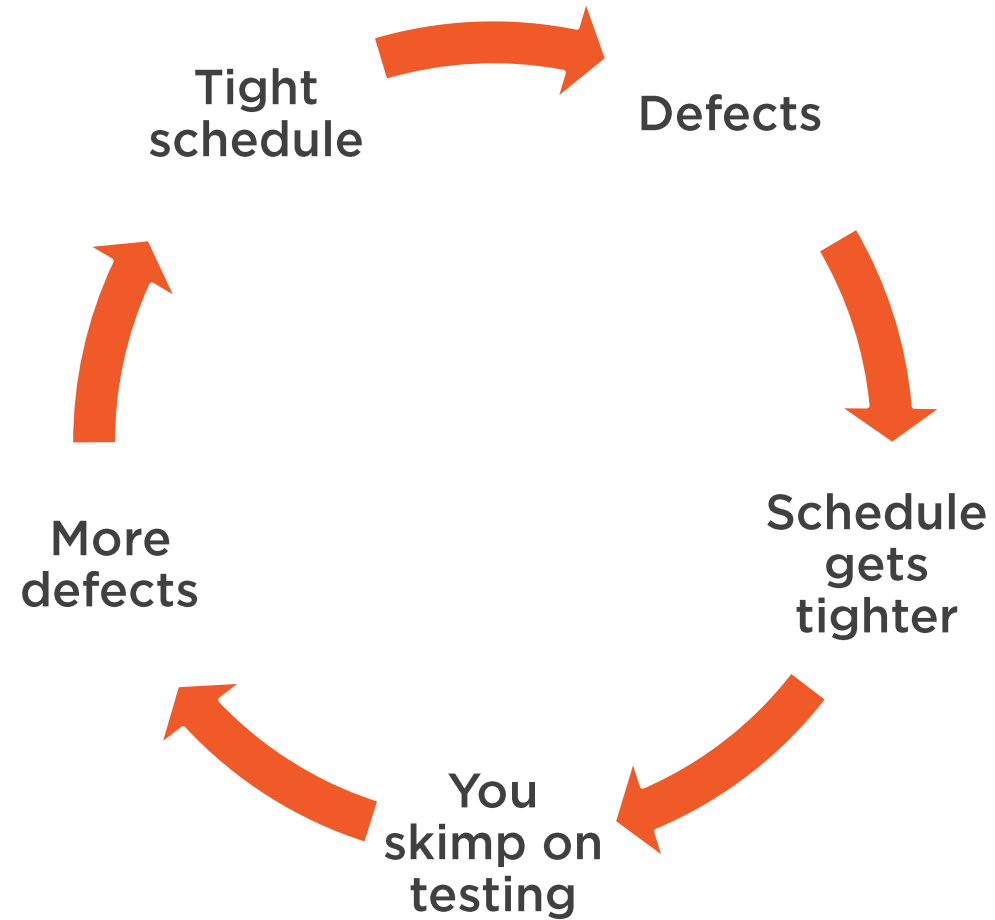
- **Not Albert Einstein**

It can scarcely be denied that the supreme goal of all theory is to make the irreducible basic elements as simple and as few as possible without having to surrender the adequate representation of a single datum of experience.

- **Albert Einstein**



# The Hotfix Death Spiral



# The Branching Model for Hotfixes

Hotfixing is not  
deployment

Deployment  
systems deploy –  
they don't care  
*why* they're  
deploying

Hotfixing is  
version control

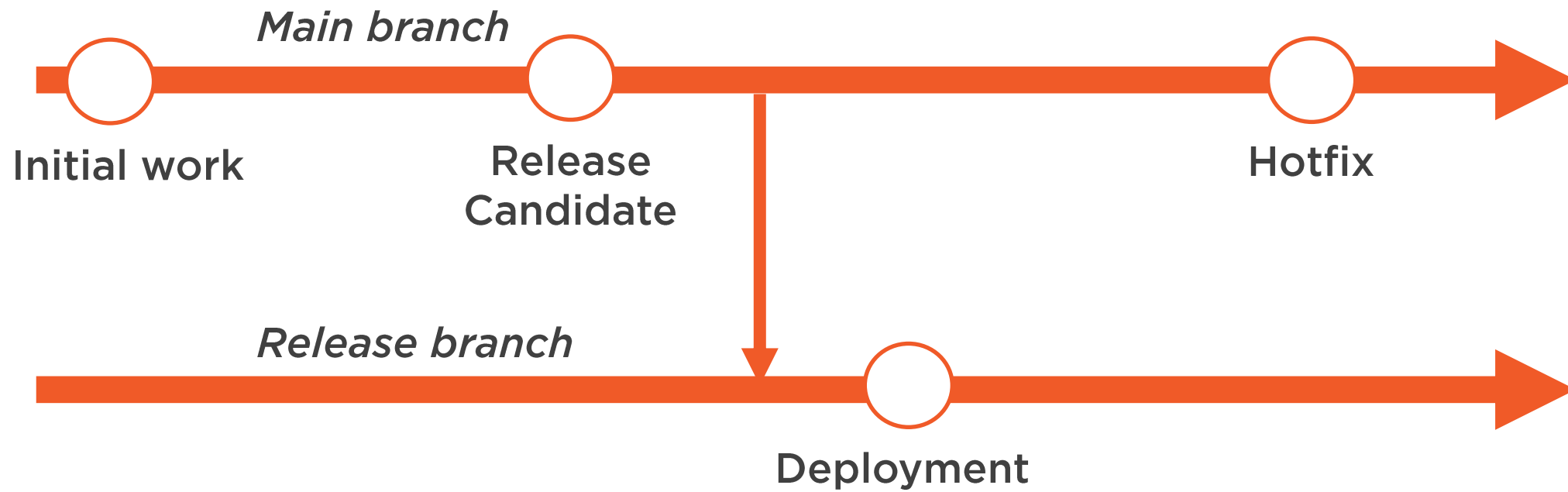


# One Branch

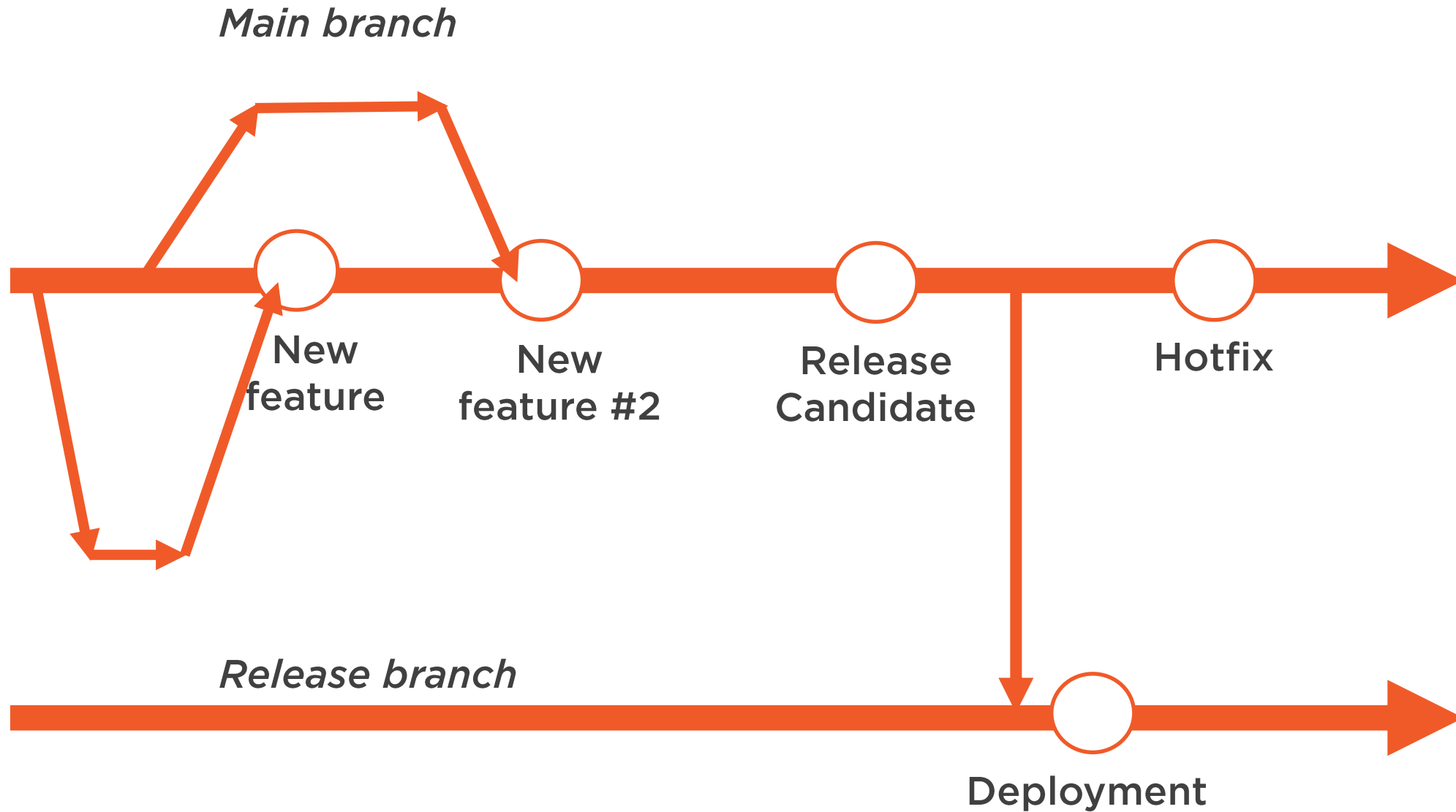




# A Release Branch



# Many Short-lived Feature Branches



# Where Do You Branch From?

You've deployed a  
major fault to  
Production

Where do you  
hotfix from?

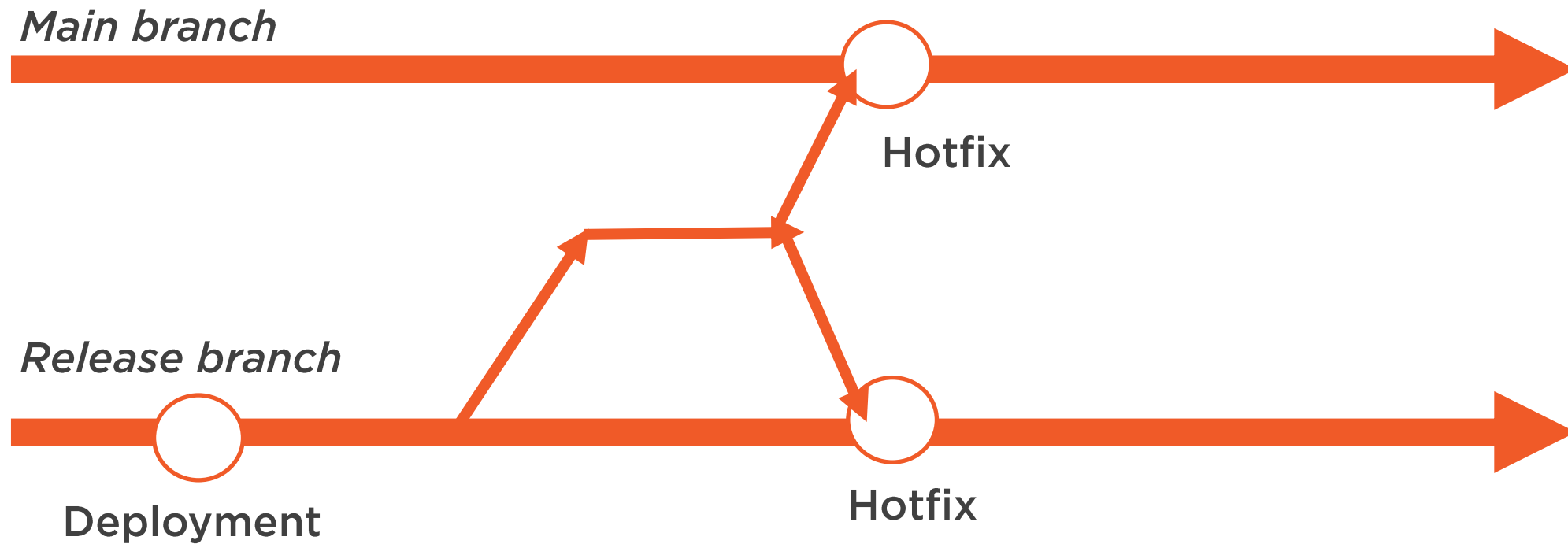
There's new stuff  
on the main  
branch



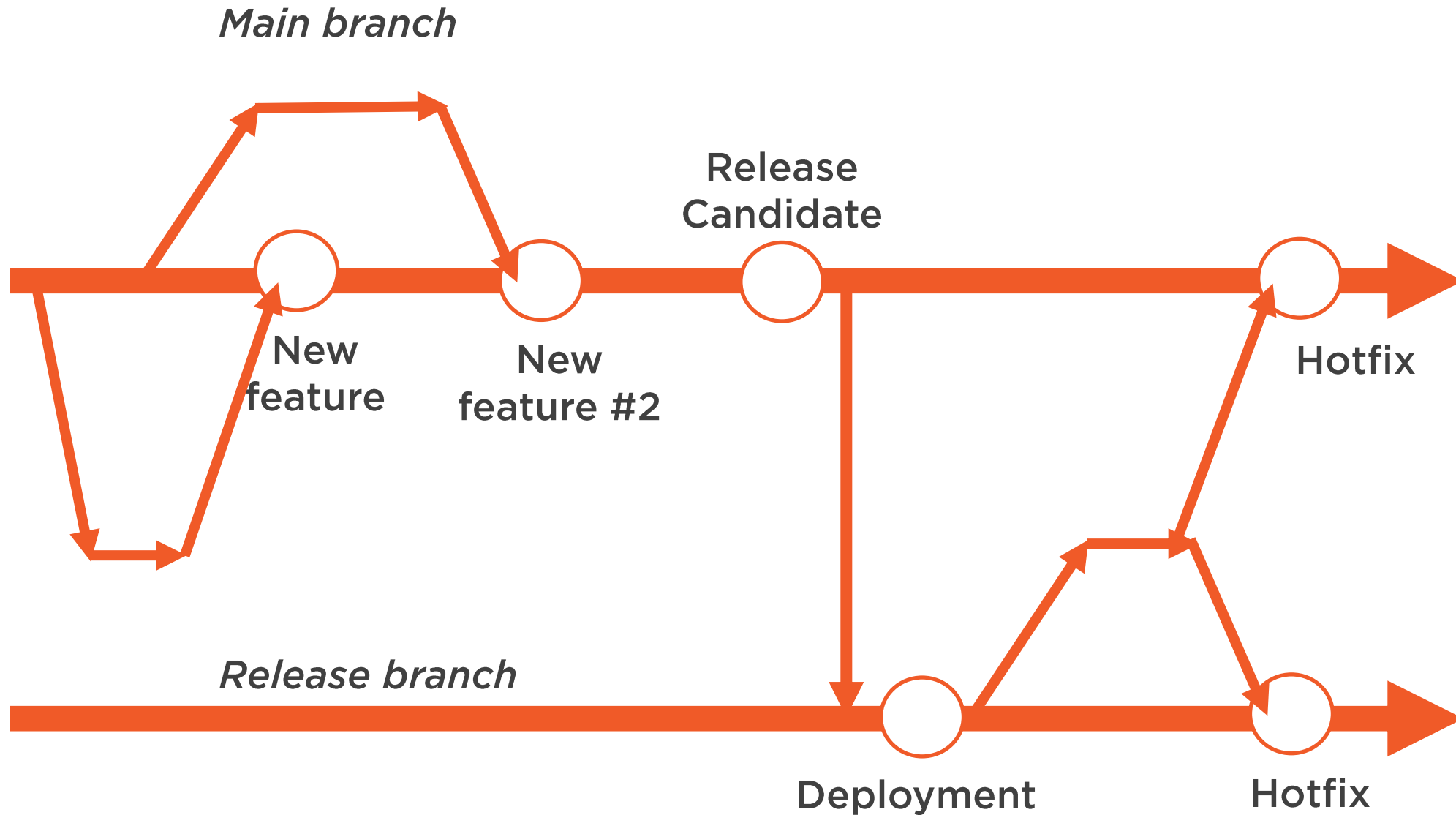
Hotfixes should be  
branched from the head of  
release branch



# Many Short-lived Feature Branches



# Moving Toward Gitflow



# Nomenclature

Name your main branch  
whatever you feel like

Whatever you branch features  
off of is your main branch

If you periodically merge that  
branch to main for the  
purposes of release...

Then main is your release  
branch



Each branch reflects a different  
(hopefully increasing) state of  
certainty about the suitability of the  
code for release

1. Feature – where we're certain it's not ready for production
2. Main or Develop – where we're more certain, but we haven't completed our verification process, and
3. Release – this reflects a commitment to ready for production.



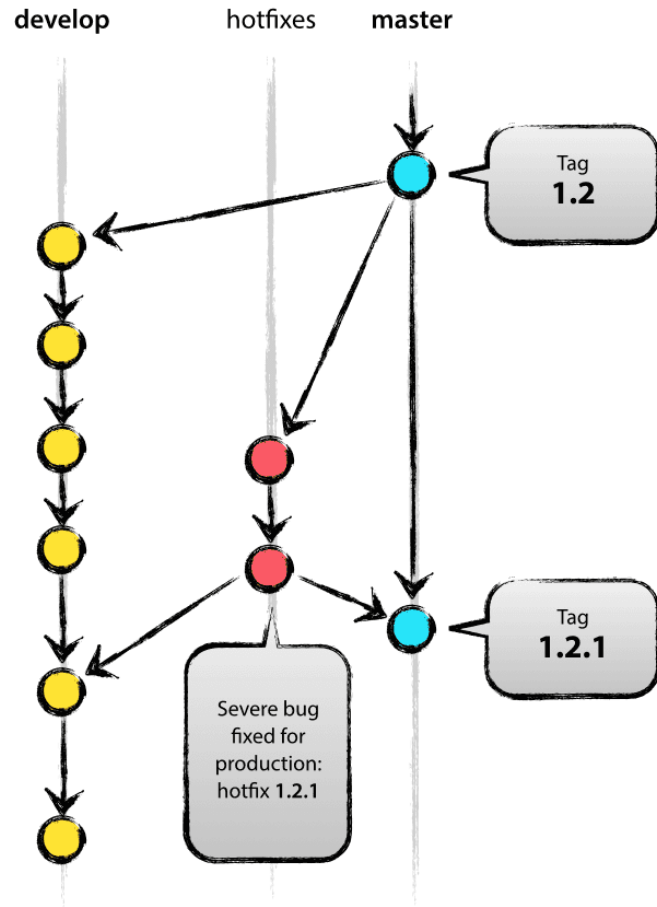


# GitFlow

1. Main
2. Develop
3. Feature
4. Release
5. Hotfix



# GitFlow and Hotfixes



Hotfixes work pretty much the same  
Merge back to main  
And also, back to develop

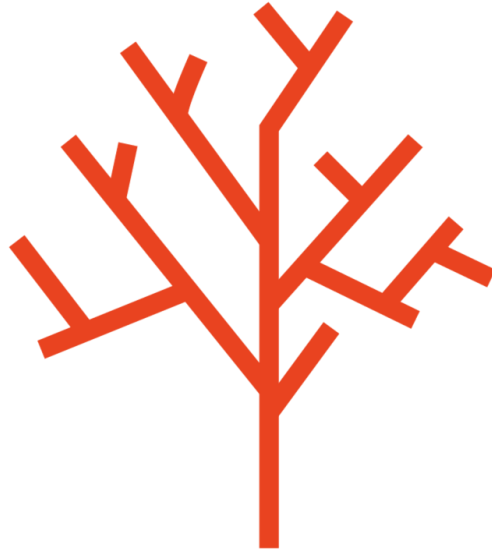
Vincent Driessen  
<https://bit.ly/37DZA1w>



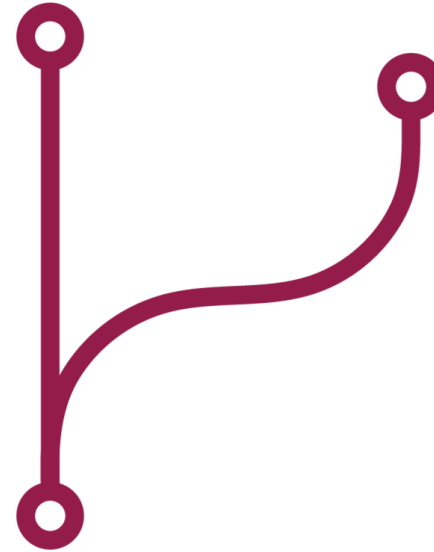
# Adopting a Git Workflow for Your Enterprise



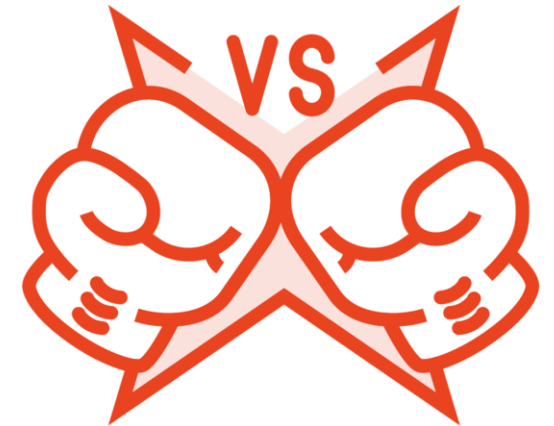
Gitflow is not  
worth the  
trouble



ReleaseFlow



I don't see the  
justification for  
the additional  
branch



GitFlow is  
controversial

Let your Git workflow  
emerge from use rather  
than being imposed top-  
down

